## FOOD SCIENCE AND TECHNOLOGY CAREER DEVELOPMENT EVENT 2009 OJECTIVE TEST

1.	Starch is a type of a. protein b. lipid c. enzyme d. carbohydrate
2.	To manufacture mayonnaise, a quantity of oil is blended with a smaller amount of water and egg yolk to form a emulsion.  a. protein-in-oil  b. oil-in-protein  c. oil-in-water  d. water-in-oil
3.	The fat soluble vitamins are a. A, B, C, and D b. B, C, D, and K c. A, C, D and K d. A, D, E, and K
4.	At sea altitude, pure water freezes at  a. 0°F  b. 10°C  c. 32°C  d. 32°F
5.	A complex protein molecule that stimulates or speeds up a specific chemical reaction without being used up itself is called  a. a substrate b. an enzyme c. a mycelium d. a flagellum
6.	The purpose for using a leavening agent such as baking soda or baking powder in cakes and cookies is to provide a source of  a. sodium dioxide b. carbon monoxide c. sodium monoxide d. carbon dioxide
7.	Lemon juice, which is acidic, would have an approximate pH of a. 3.0 b. 5.0 c. 7.0 d. 9.0

8. Ron had a piece of Canadian bacon pizza, his favorite, left over from the previous night's pizza party. Although cold pizza is a time-honored breakfast food, Ron hesitated to eat it because it had been left all night at room temperature. However, as so often happens, desire won out over caution and scarfed it down. Two hours later, he experienced nausea and severe vomiting which lasted a few hours. When he felt better he consulted a food microbiolog friend of his, Hermione, who said, "With such a brief incubation period and primarily upper gastrointestinal signs, you probably had a(n)"		
	<ul><li>a. Psychosomatic reaction against eating pizza for breakfast</li><li>b. Allergy</li><li>c. Intoxication</li><li>d. Infection</li></ul>	
9.	Listeria monocytogenes is a bacterium that grows at refrigeration temperatures and is considered to be a  a. psychrophile b. mesophile c. thermophile d. refrigophile	
10.	To produce sauerkraut, cabbage undergoes a process. a. drying b. fermentation c. freezing d. irradiation	
11.	The microorganisms intentionally added to raw materials to be fermented are called  a. natural inoculums b. natural contamination c. a starter culture d. a mother culture	
12.	Campylobacter jejuni is one of the leading causes of foodborne illness in the U.S People become ill with campylobacteriosis as a result of consuming the cells of C. jejuni when eating contaminated food. This is an example of a  a. food-borne intoxication b. food-borne infection c. food allergy d. food intolerance	
13.	A bacteriostatic compound used in soap at a food processing plant will  bacteria.  a. have no effect on b. inhibit the growth of c. enhance the growth of d. eliminate	

	I. The green fuzzy growth that can appear on bread that has been stored at room temperature too long, especially under humid conditions, is caused by		
	 a. bacteria		
	o. yeast		
	c. mold		
(	d. viruses		
15. Any	microorganism that can cause disease is called a		
	a. virus		
	o. pathogen		
	c. prion		
(	d. parasite		
	croorganism commonly found in human nasal passages and on the skin tha cause foodborne illness if food becomes contaminated is		
	a. Bacillus cereus		
ŀ	o. Staphylococcus aureus		
(	c. Clostridium botulinum		
(	d. Escherichia coli O157:H7		
	bacteria are used to make vinegar.		
-	a. Acetic acid		
	b. Lactic acid		
	c. Propionic acid		
(	d. Citric acid		
	extruder is a piece of equipment commonly used to form		
	a. bagels		
	o. crackers		
	c. tortillas		
(	d. pasta		
	ning of food products is a method of		
ć	a. preservation		
ŀ	o. fermentation		
	c. pasteurization		
(	d. irradiation		
	undergoes a process called that is intended to break down fat		
_	ules so they are smaller and more uniform in size.		
	a. homogenization		
	o. vaporization		
	c. encapsulation		
(	d. emulsification		
	en steam undergoes a phase change to liquid water, occurs.		
	a. evaporation		
	o. vaporization		
	c. condensation		
(	d. lyophilization		

22. The is the length of time required at a specific temperature to destroy 90% of the microorganisms present.  a. K-value		
b. F-value		
c. D-value		
d. z-value		
processing facility is called a. sterilizing b. sanitizing c. cleaning	rime, grease, and food particles in a food	
d. cleaning and sanitizing		
24. Vegetables are blanched before initiate undesirable changes in versions a. microorganisms b. prions c. chlorophyll d. enzymes	freezing to inactive that catalyze or egetable color, texture and flavor.	
	stand the theory of food systems, including the food and food components is a	
26. A retort is a piece of equipment of a. Frying b. Drying c. Canning d. Baking	sed for	
planned on buying, such as a car	played near a cash register that you had not ndy bar, but the candy had a sudden and pe of product would be called	
28. A synthetic sweetener made of a many diet soft drinks is called a. aspartame b. sorbitol c. saccharin d. acesulfame K	spartic acid and phenylalanine that is found in	

29.	, in the form of carotene, is found in large amounts in carrots,
	sweet potatoes, and apricots.
	a. Vitamin A
	b. Vitamin B <sub>6</sub>
	c. Vitamin C
	d. Vitamin D
30.	An example of a food attribute would be the
	a. flavor of strawberries
	b. color of apple juice
	c. texture of broccoli florets
	d. all of the above
31.	You are developing a new food product that requires a rapidly dissolving sugar.  Given a choice of using equal amounts of granulated sugar, brown sugar, superfine sugar, or a sugar cube, which type of sugar would dissolve the fastest?  a. granulated sugar because of its crystals  b. brown sugar because it contains molasses
	<ul><li>c. superfine sugar because it has more surface area per gram of solid</li><li>d. sugar cube because of its uniform shape</li></ul>
32.	The portion of a label found on food packages that presents nutritional information is called a. Food Facts b. Nutritional Education c. Nutrition Facts d. Daily Values
33.	During, the interaction of an amino acid and a reducing sugar results in non-enzymatic browning.  a. caramelization b. gelatinization c. glycolysis d. the Maillard reaction
34.	A compound that has little or no flavor itself but is added to food to assist or boost the primary flavor of the food to which it is added is a  a. processing aid b. humectant c. stabilizer d. flavor enhancer
35.	Food ingredients that are GRAS, also known as, are considered safe for human consumption.  a. generally recognized as safe b. generally research assured safe c. government recognized as safe d. government research assured safe

36.		is a protein found in milk.
	a.	Myosin
	b.	Albumin
	C.	Casein
	d.	Keratin
37.	A food	contains 11 grams of fat, 6 grams of carbohydrates and 8 grams of
•		n. That would be equivalent to calories.
		155
		130
		140
		170
	u.	170
38.		activity, the degree of availability of water in food, is measured on a scale
		 0-14
	-	0-100
		0-1
	d.	0-10
20	An ove	ample of a non digestible complex carbohydrate is
<i>ა</i> 9.		ample of a non-digestible complex carbohydrate is fructose
		starch
		fiber
	a.	lactose
40.	The er	nzyme added to milk to cause curd formation in cheese is called
	a.	amylase
		rennin
	C.	lactase
	d.	lipase
41.	The ch	nemical name for table salt is
		sodium bicarbonate
		potassium nitrate
		sodium chloride
		sodium bisulfite
42.	When	proteins begin to break down in protein-rich foods such as meat and milk,
	the pro	ocess is called
	a.	proteolysis
	b.	lipolysis
		glycolysis
		hydrolysis
		•
43.	The re	ed color of a tomato is due to a compound called
	a.	beta carotene
	b.	lycopene
		limonene
	Ч	carotene

44	is added to meat to produce a cured meat color and flavor, and to
serve	as an antibotulinal agent.
a.	Sodium erythorbate
b.	Sodium phosphate
C.	Sodium chloride
d.	Sodium nitrite
	overnment agency responsible for ensuring that meat and poultry are safe
	holesome for consumption is the
	Food and Drug Administration
	United States Department of Agriculture
	Department of Health and Human Services
d.	Animal and Plant Health Inspection Service
	se of food additives in the U.S. is regulated by the
	Food and Drug Administration
	United States Department of Agriculture
	Department of Health and Human Services
d.	Animal and Plant Health Inspection Service
	t a food manufacturing process with batches lager then bench top size, but
	er than full scale industry size, processors will use
	mass production
	batch production
	pilot scale production
d.	prototype production
	s an acronym for in the food industry.
	good methods procedures
	good manufacturing practices
	get more practice
d.	good manufacturing procedures
	that is dried at too high a temperature during dehydration can become on the outside of the product.
a.	blanched
b.	lyophilized
C.	caramelized
d.	casehardened
50. The p	resence of a cherry pit in a container of yogurt is an example of a in food.
a.	<del></del>
b.	biological hazard
C.	chemical hazard
d.	toxicological hazard